

Fig. 1

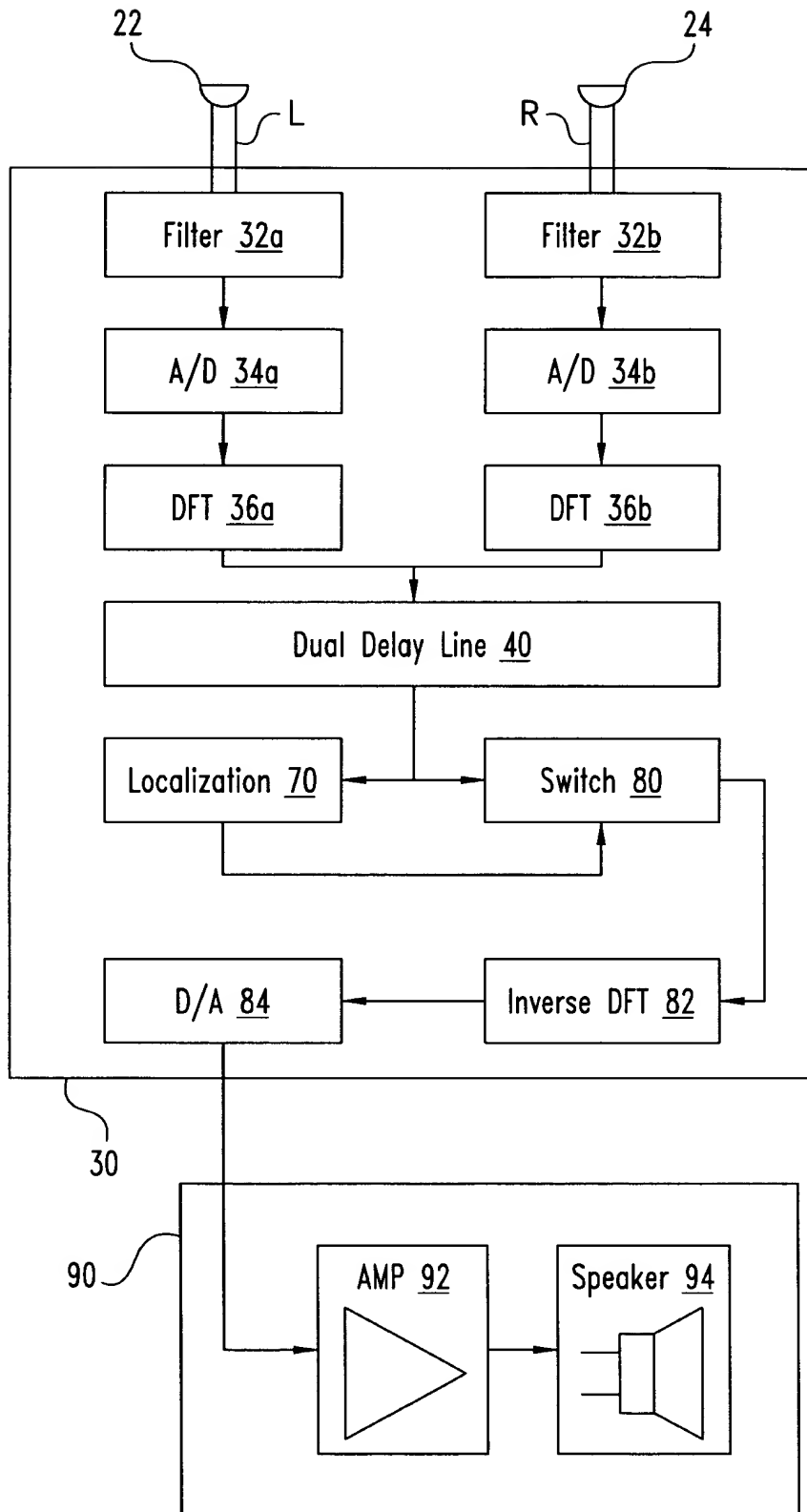


Fig. 2

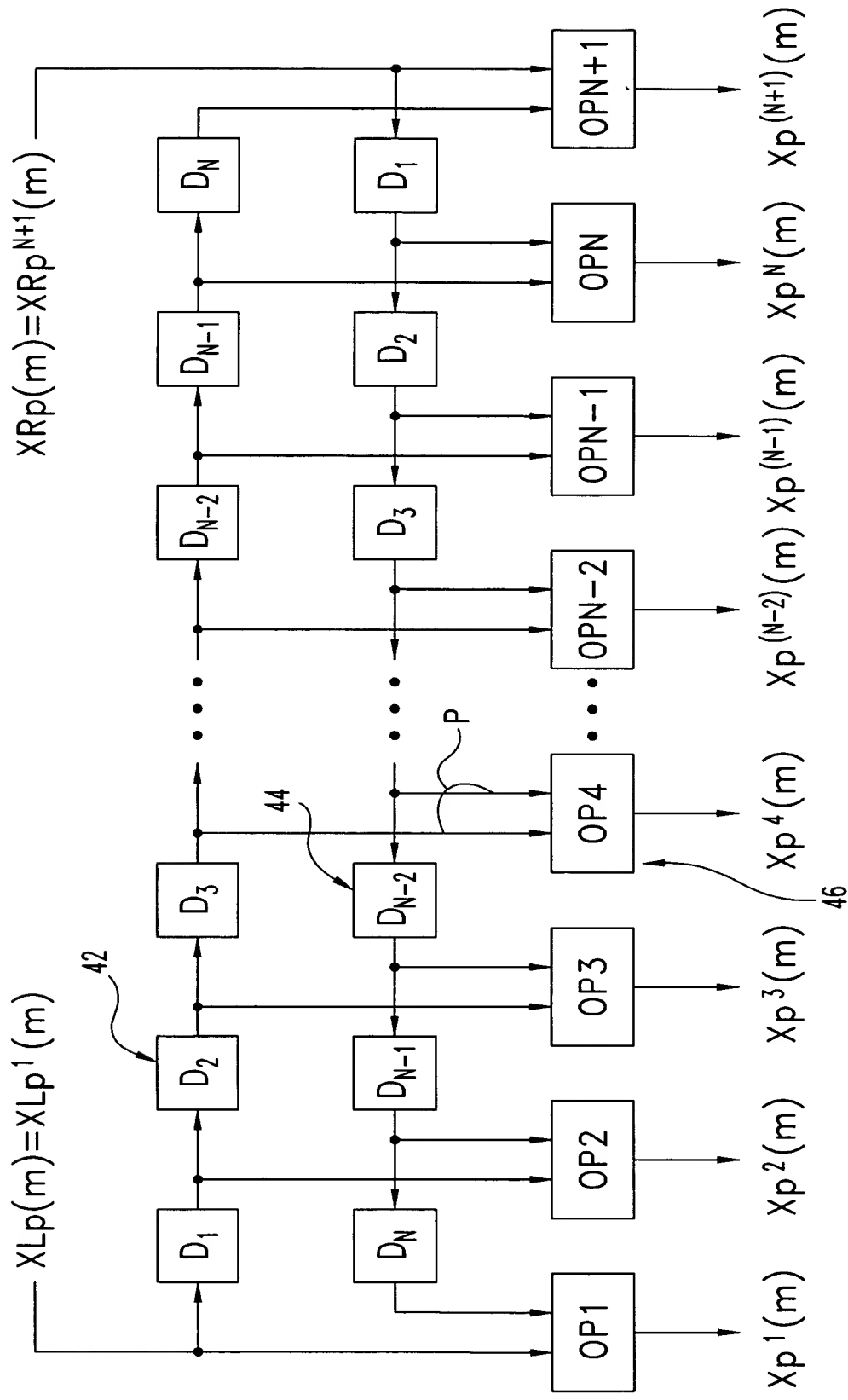


Fig. 3

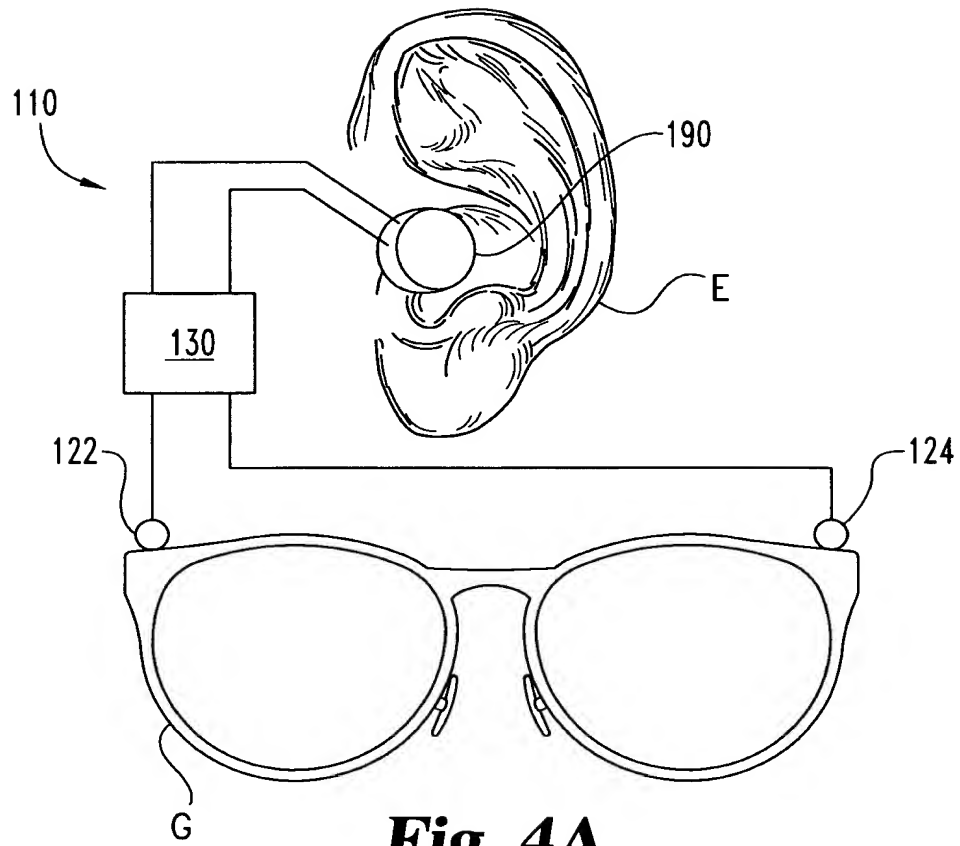


Fig. 4A

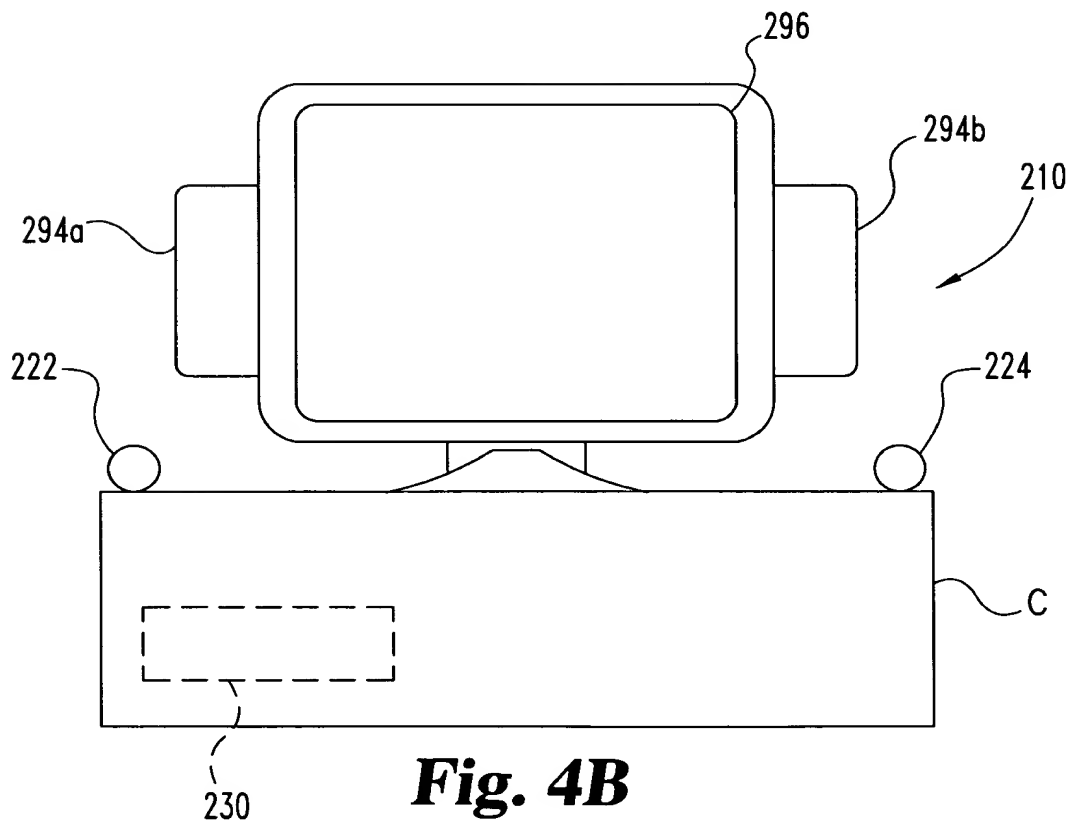


Fig. 4B

869TF" 850E6T60

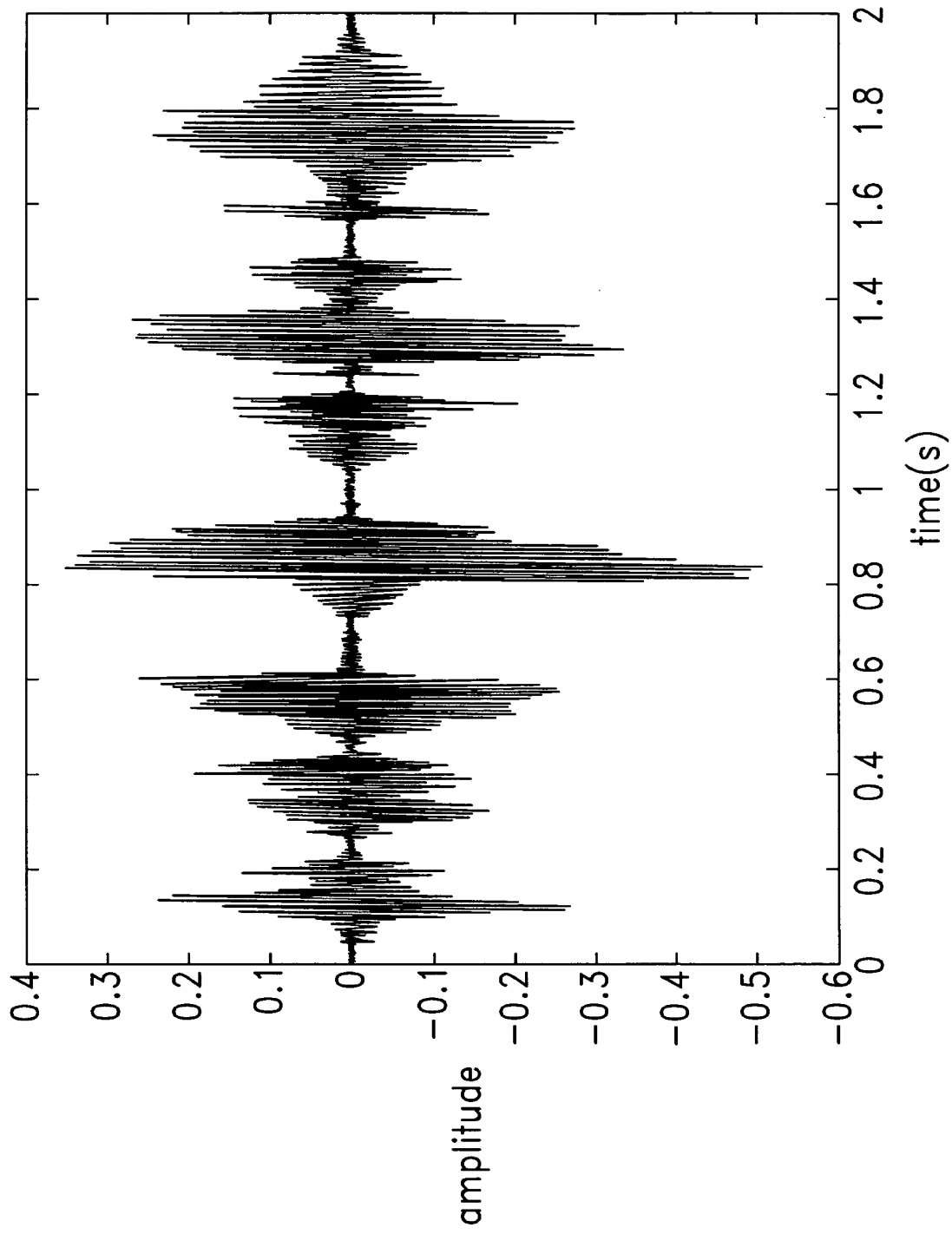


Fig. 5

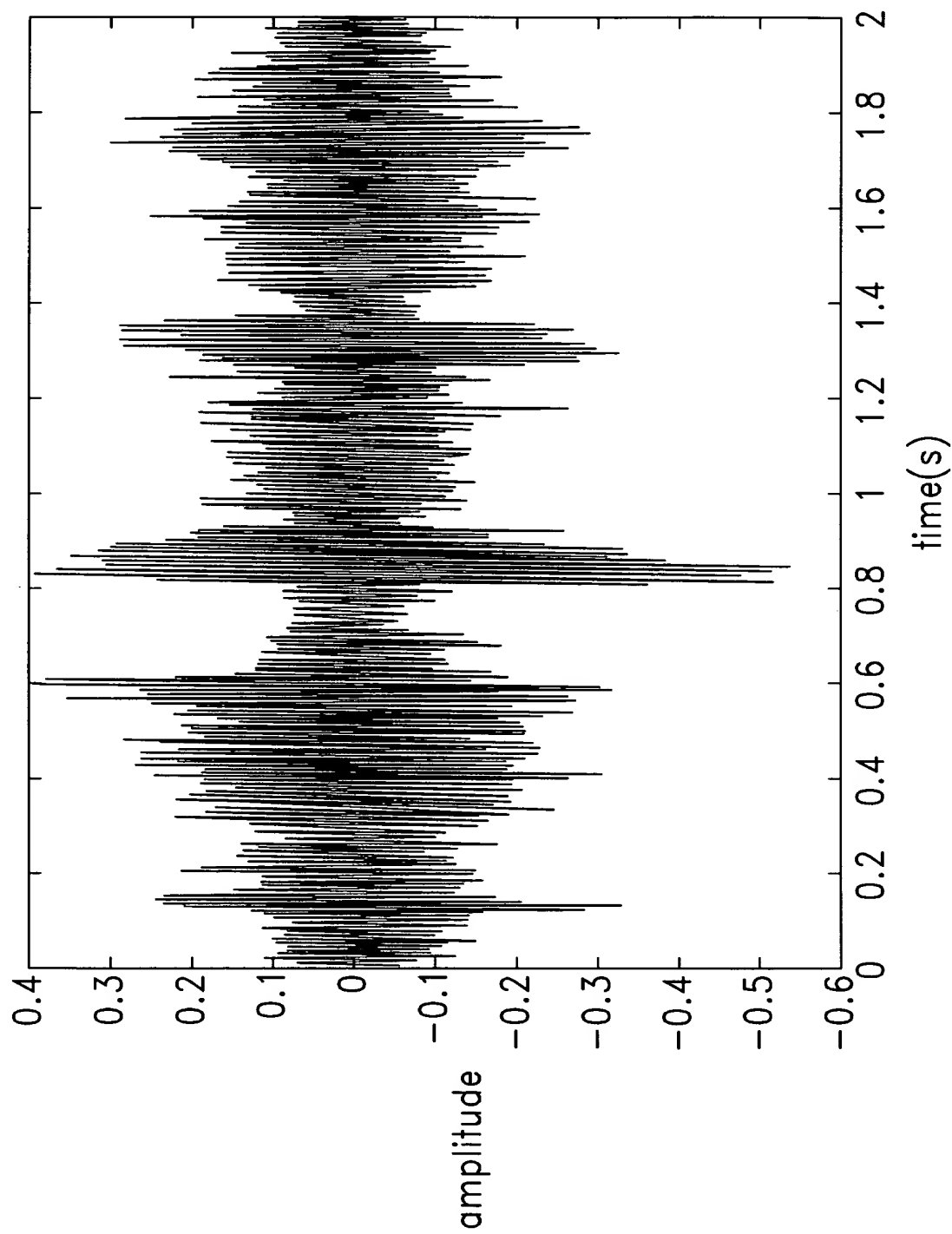


Fig. 6

059TT*850E6T60

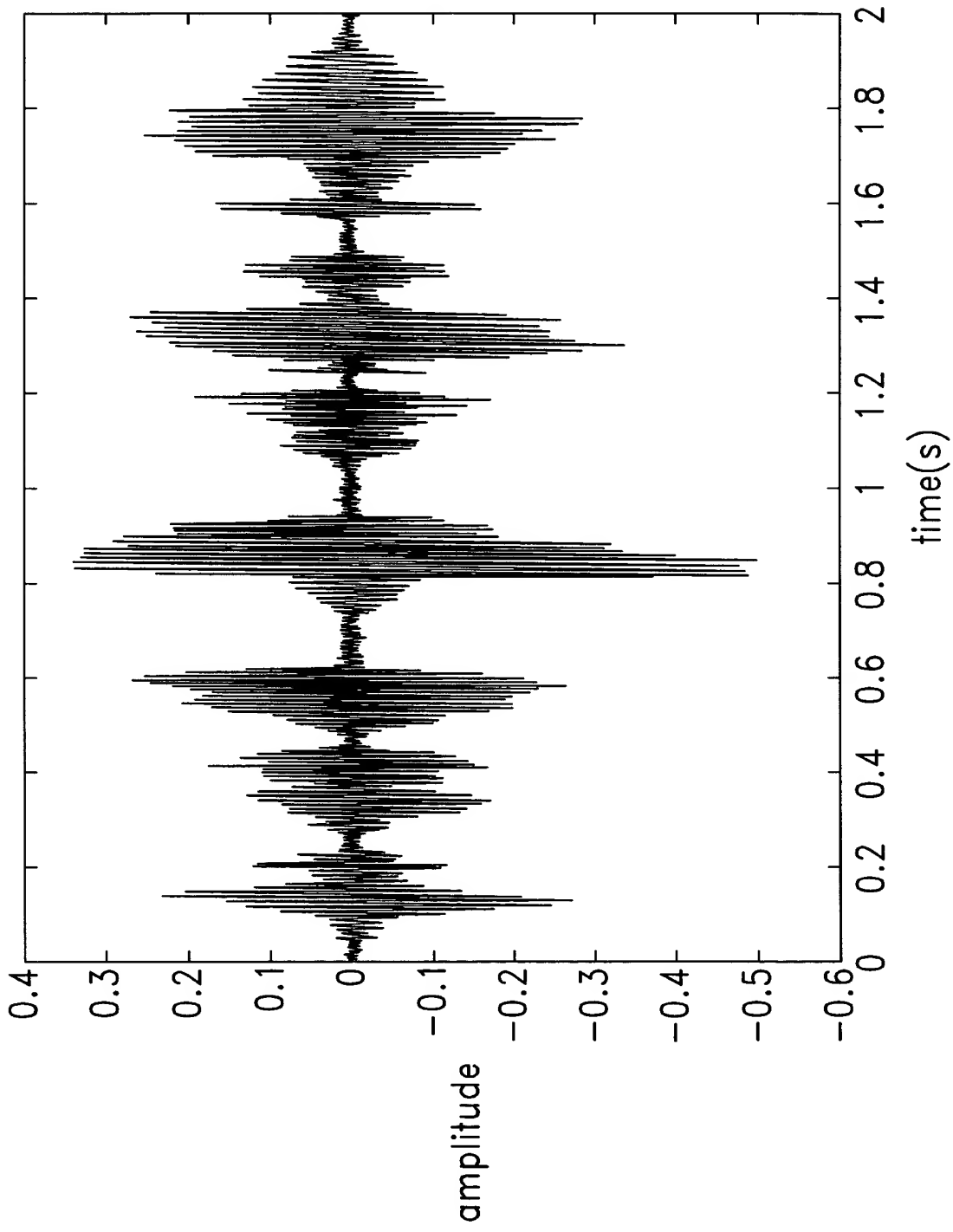


Fig. 7

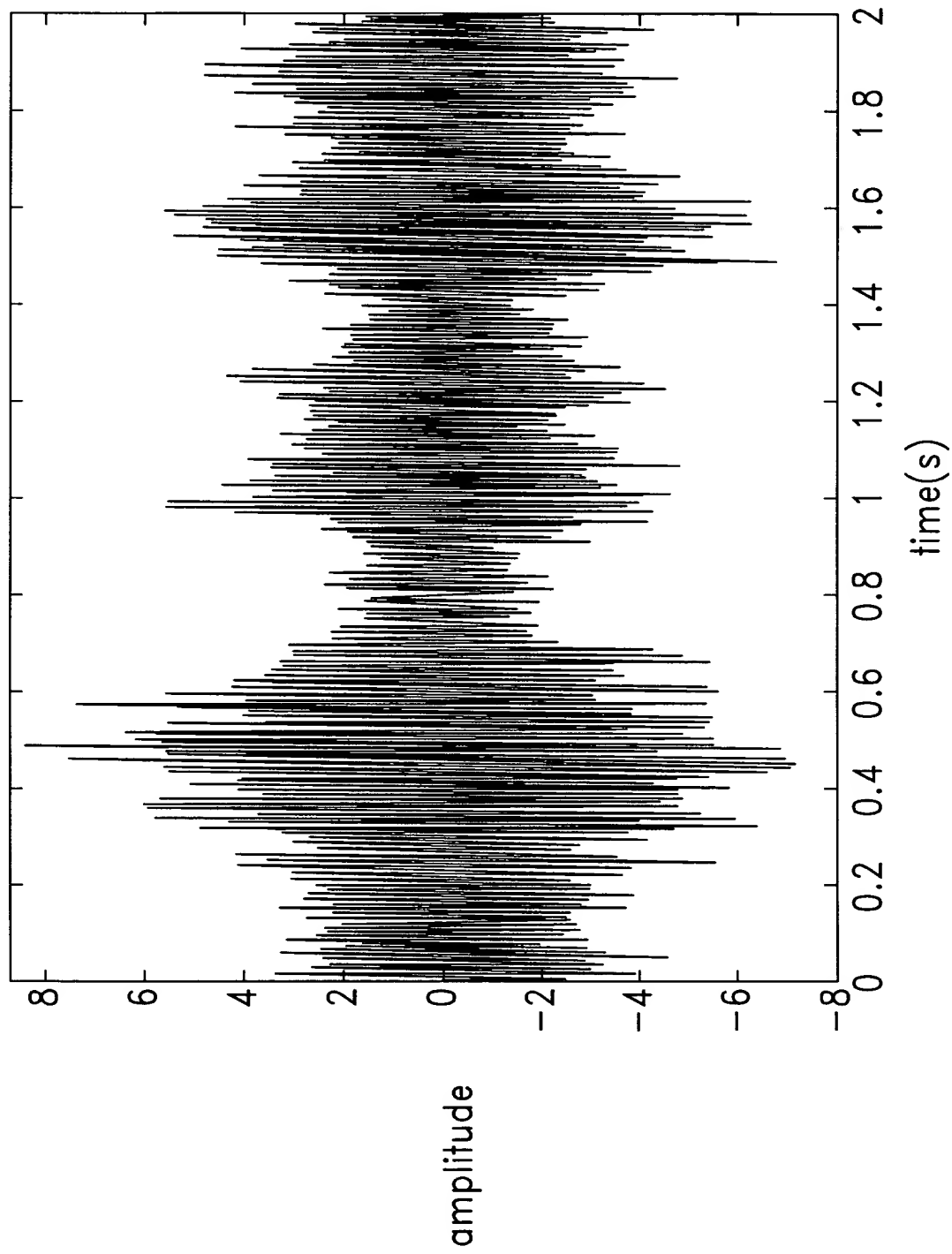


Fig. 8

369TT" B50E6T60

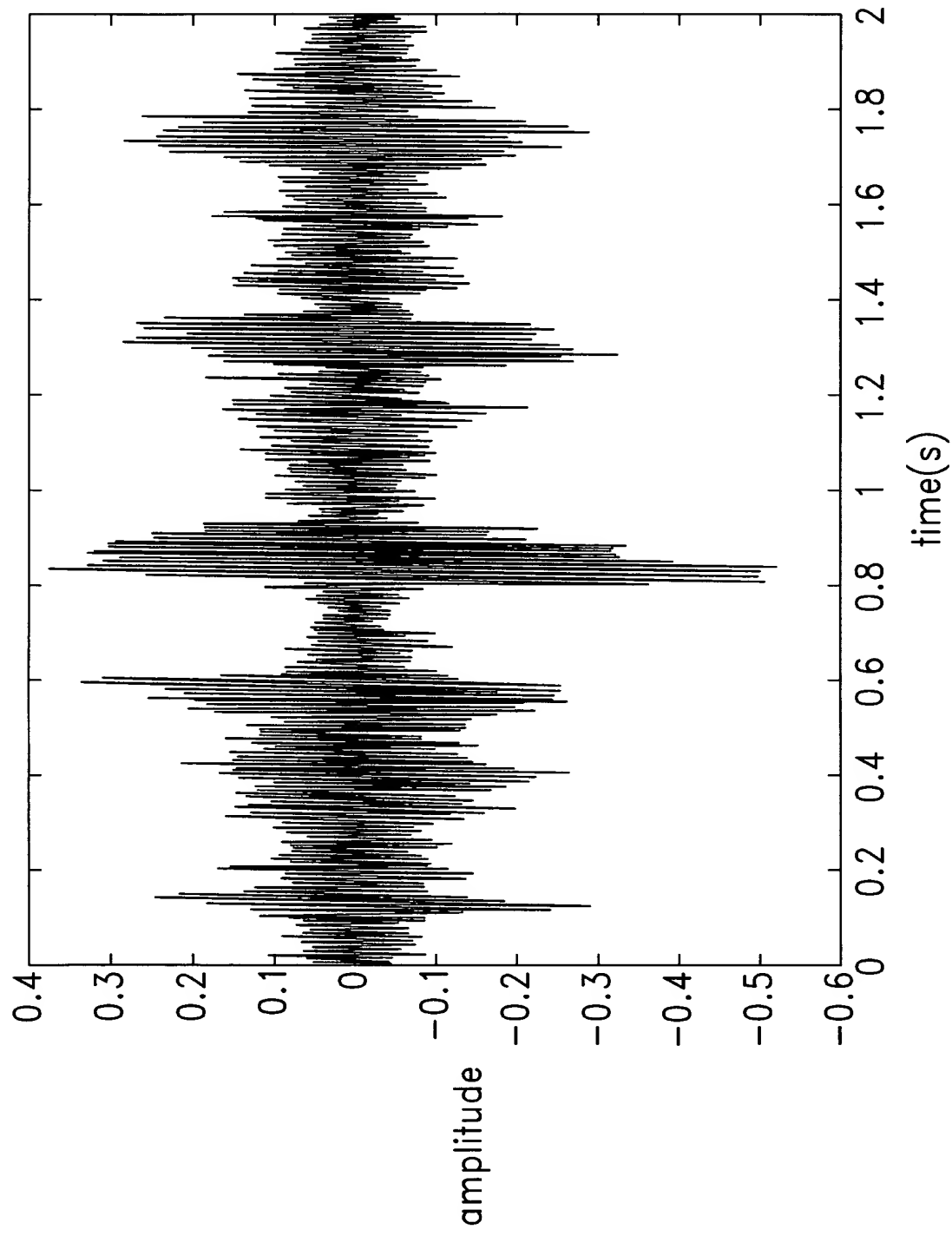


Fig. 9

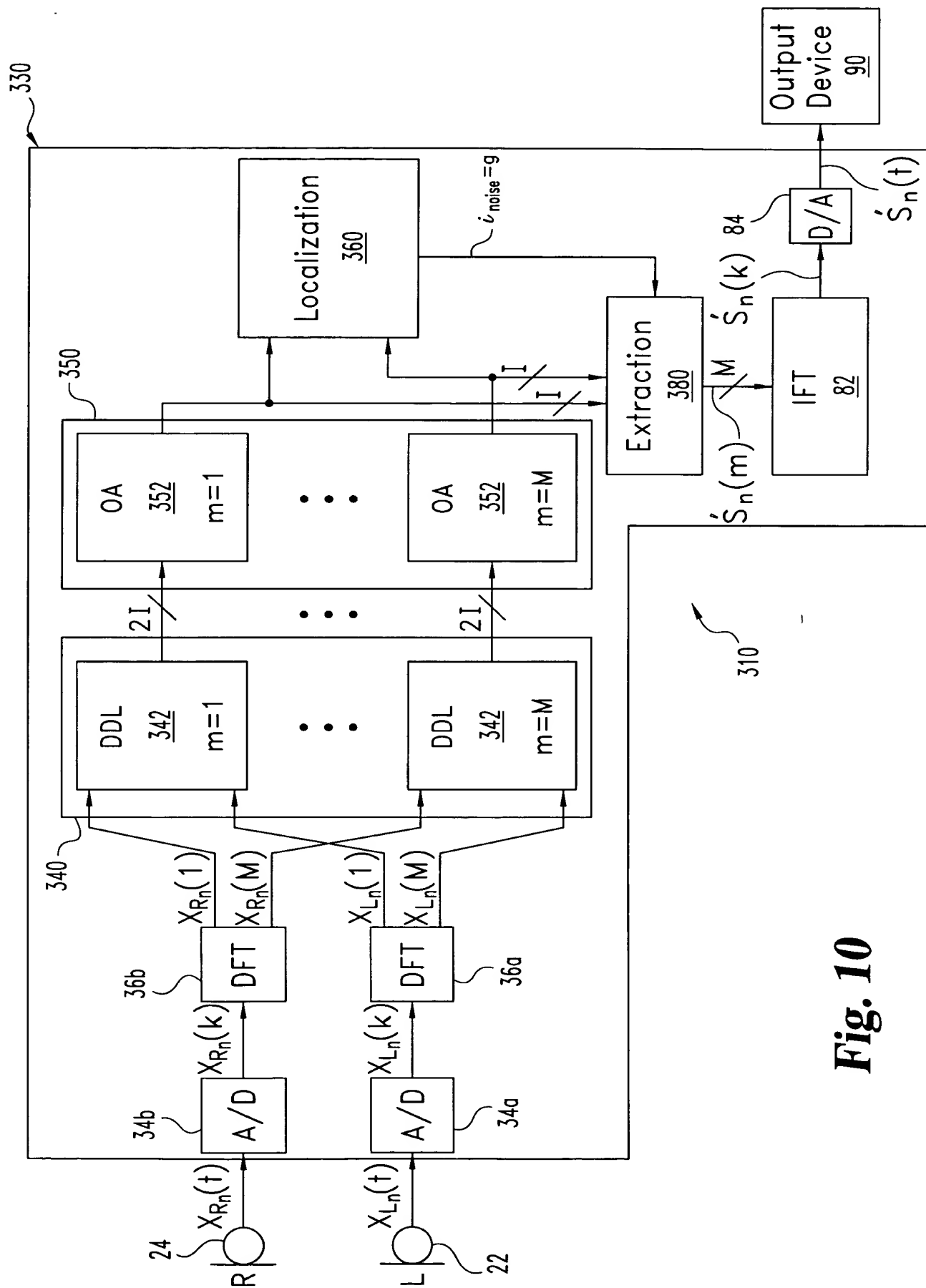


Fig. 10

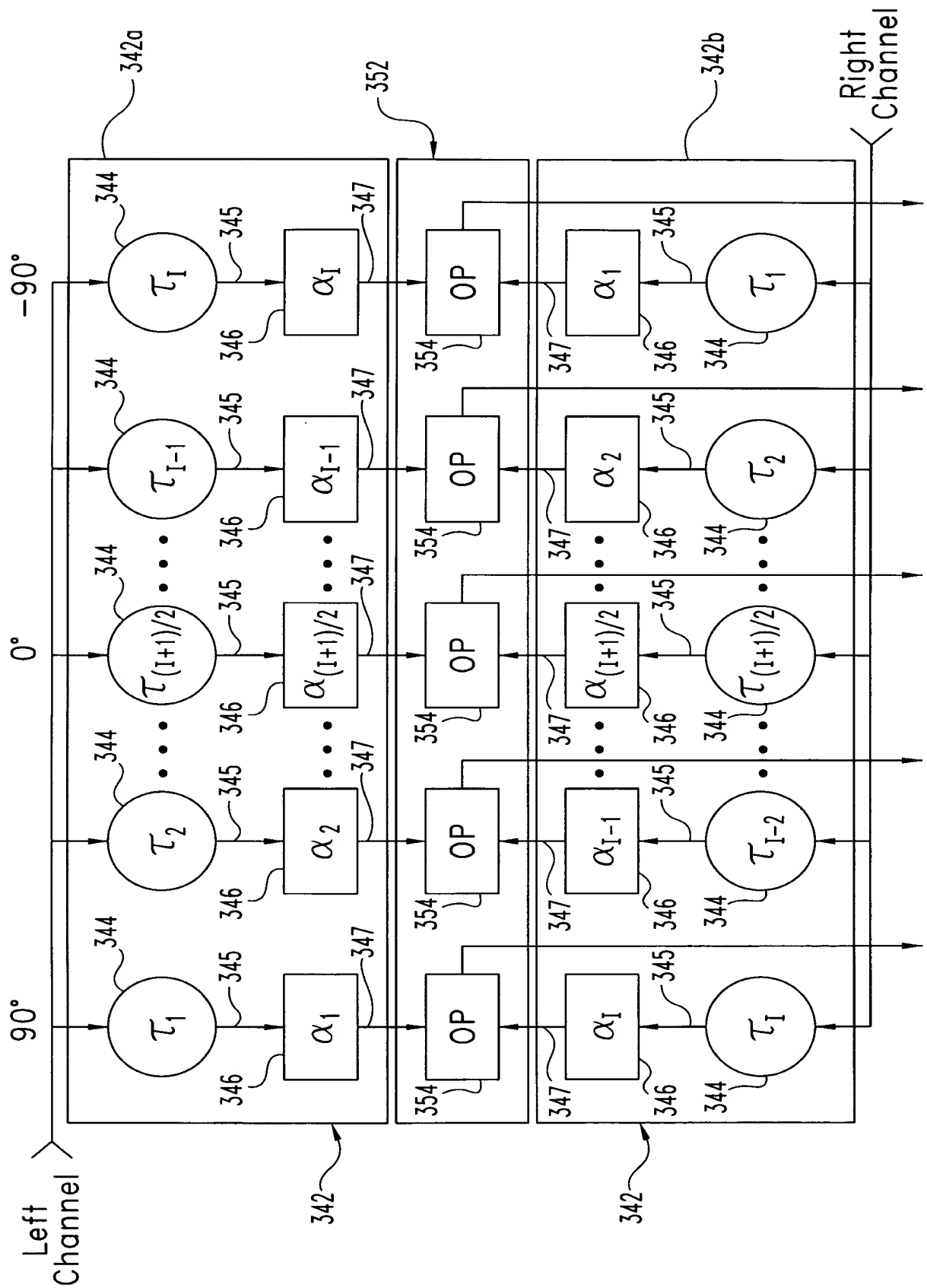


Fig. 11

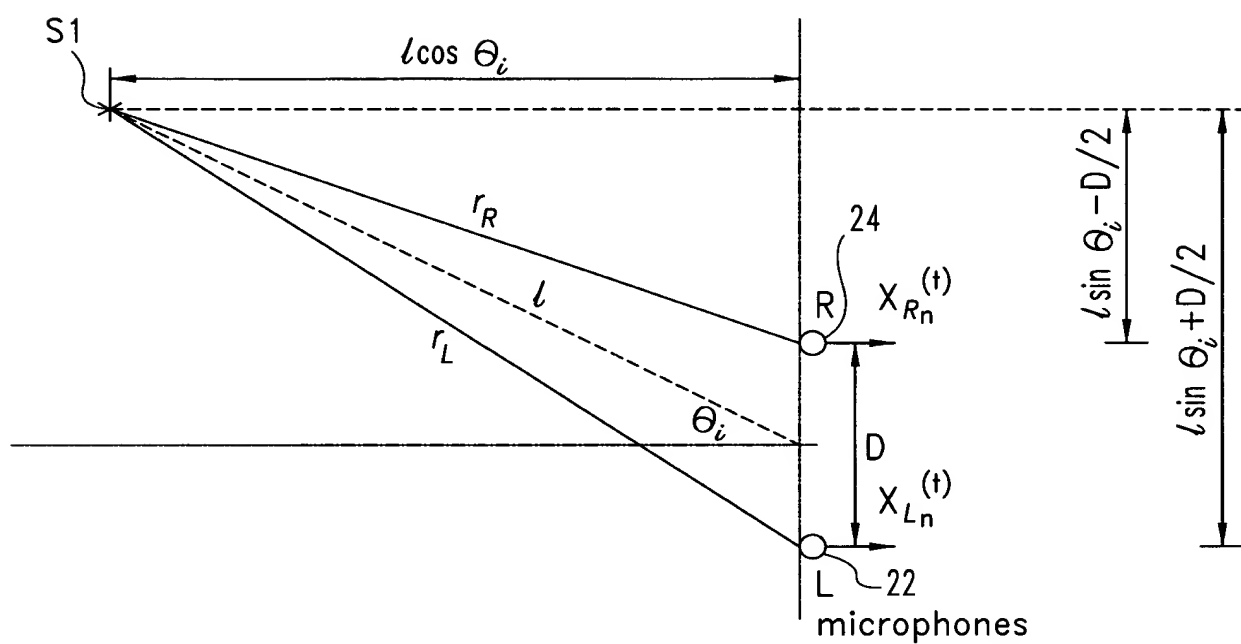


Fig. 12

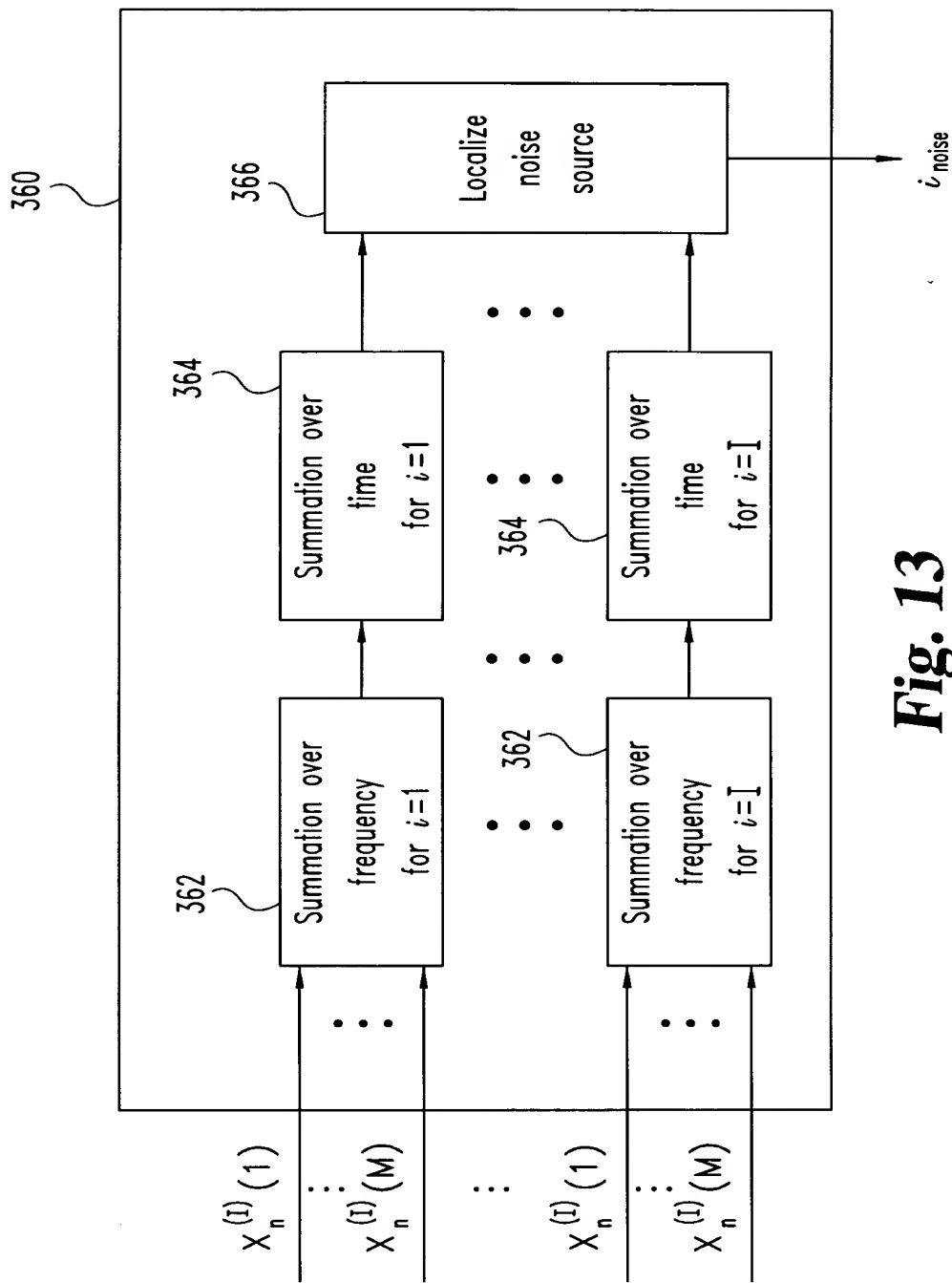


Fig. 13

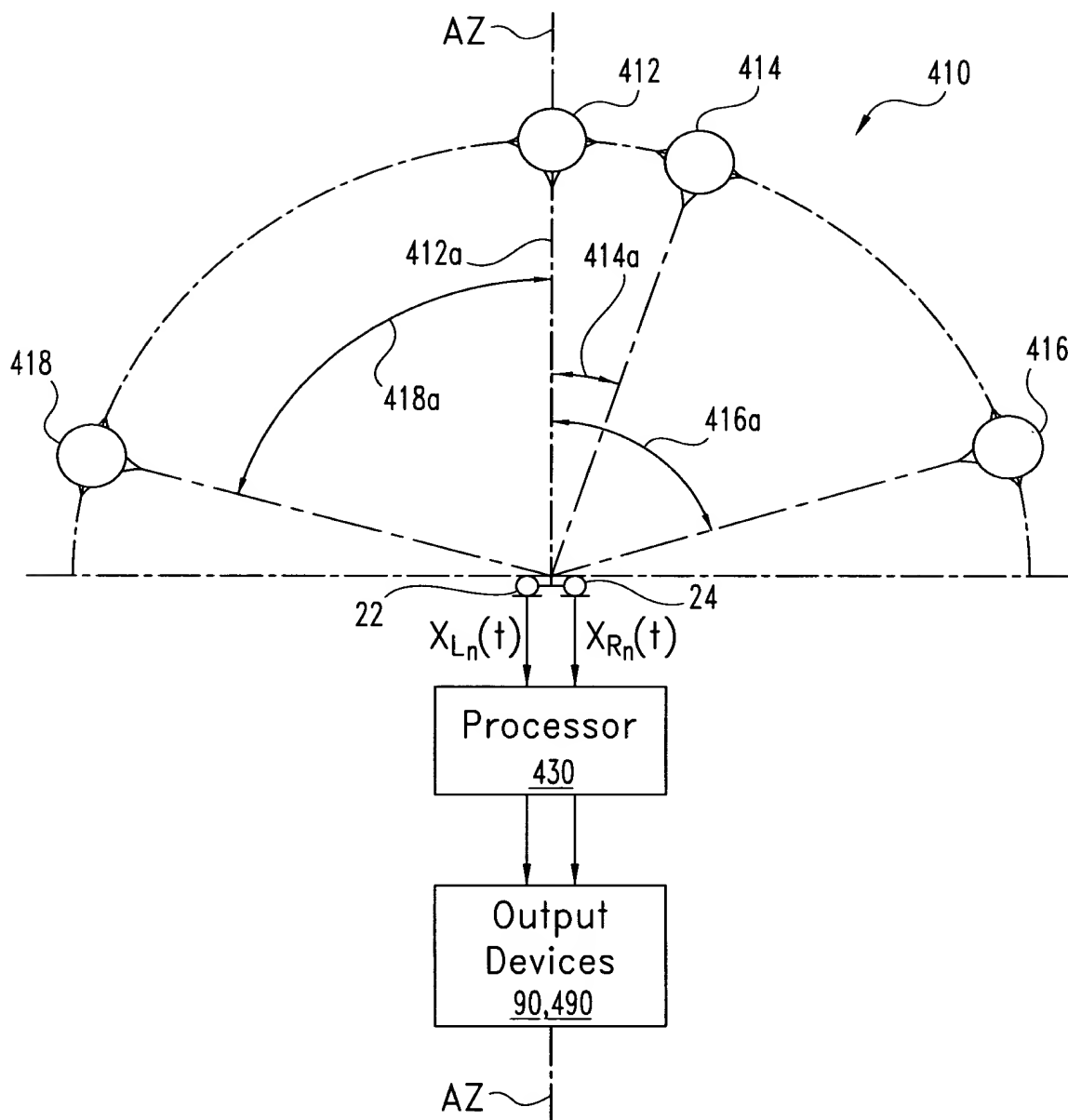


Fig. 14

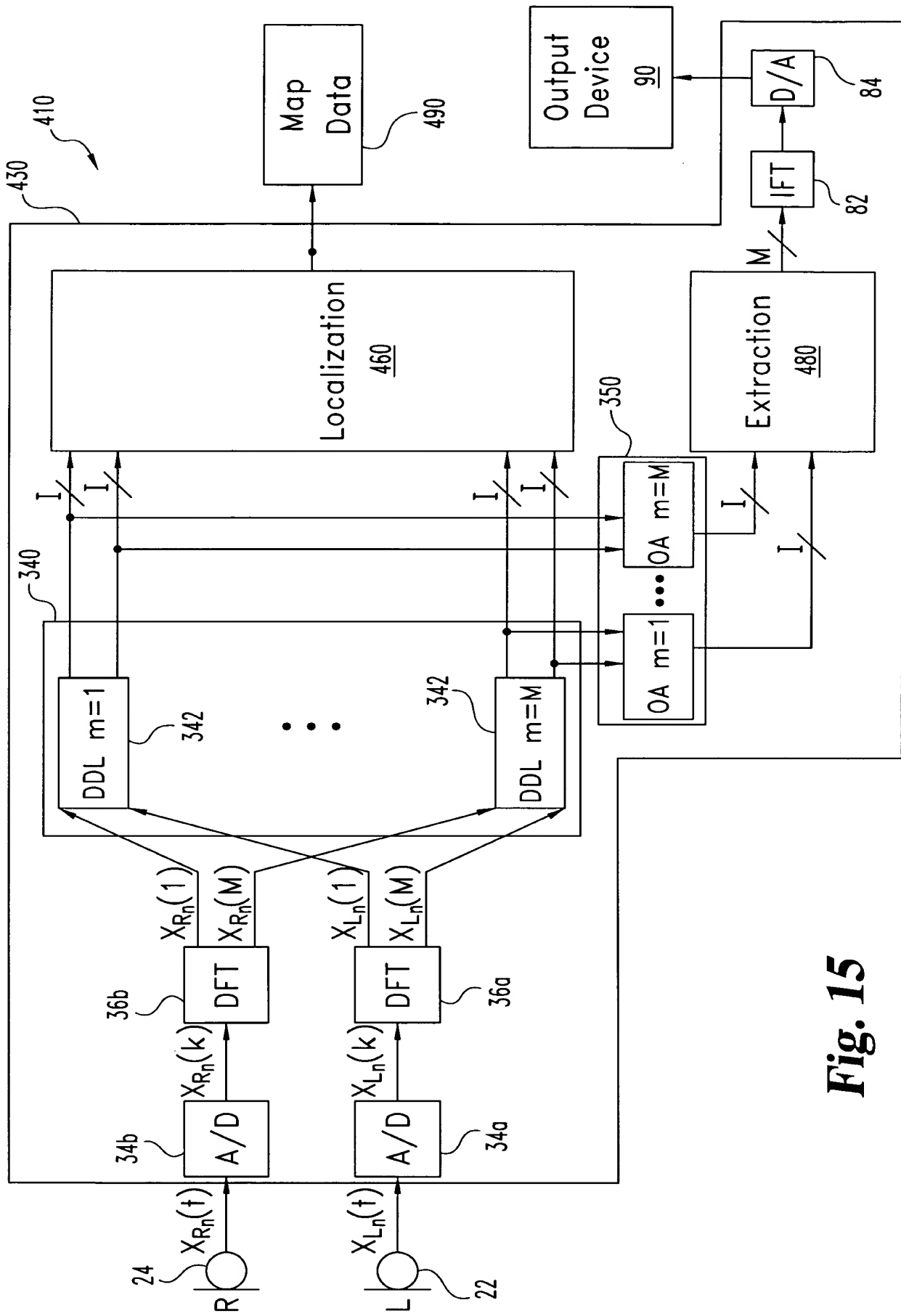


Fig. 15

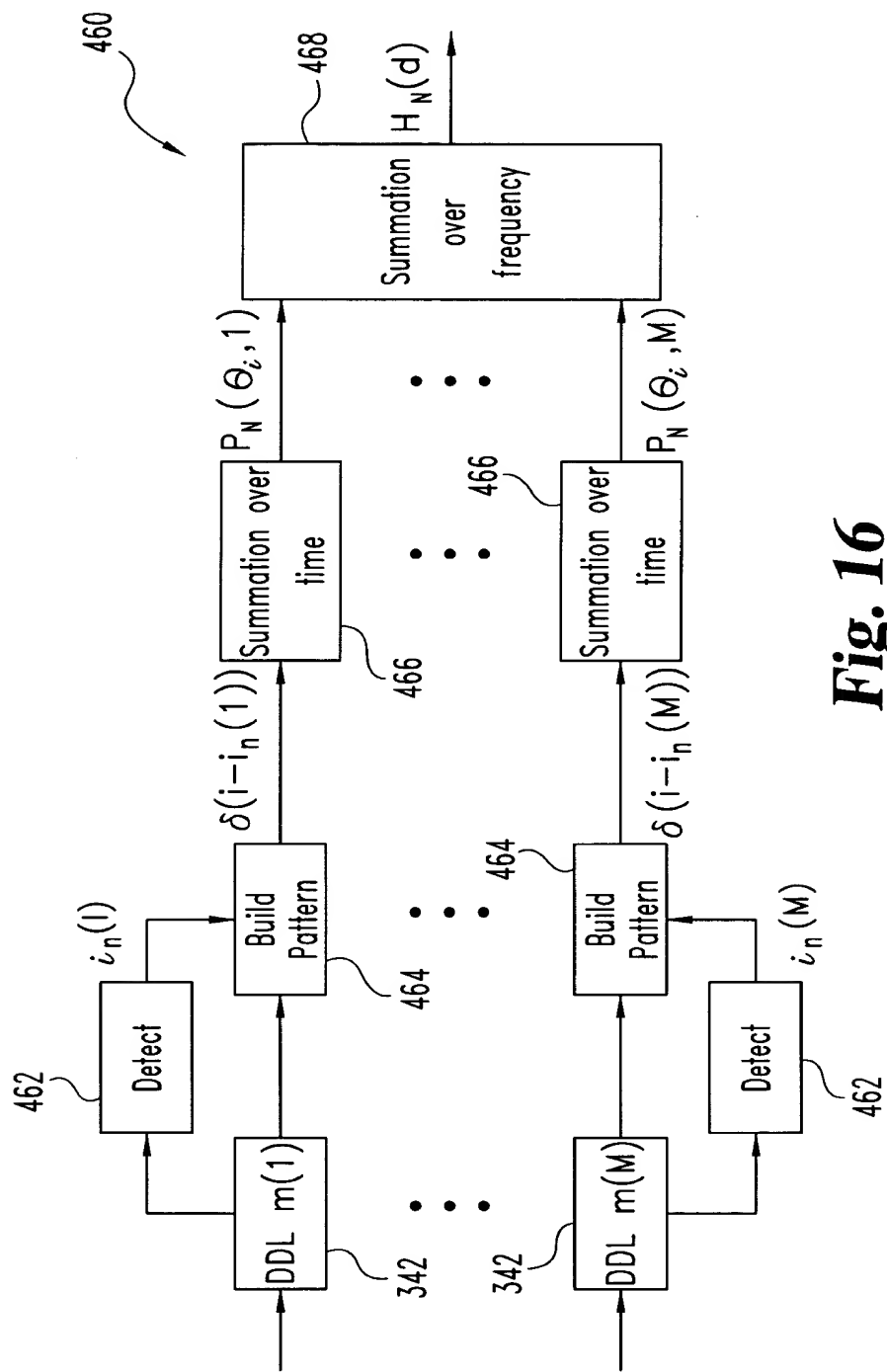


Fig. 16

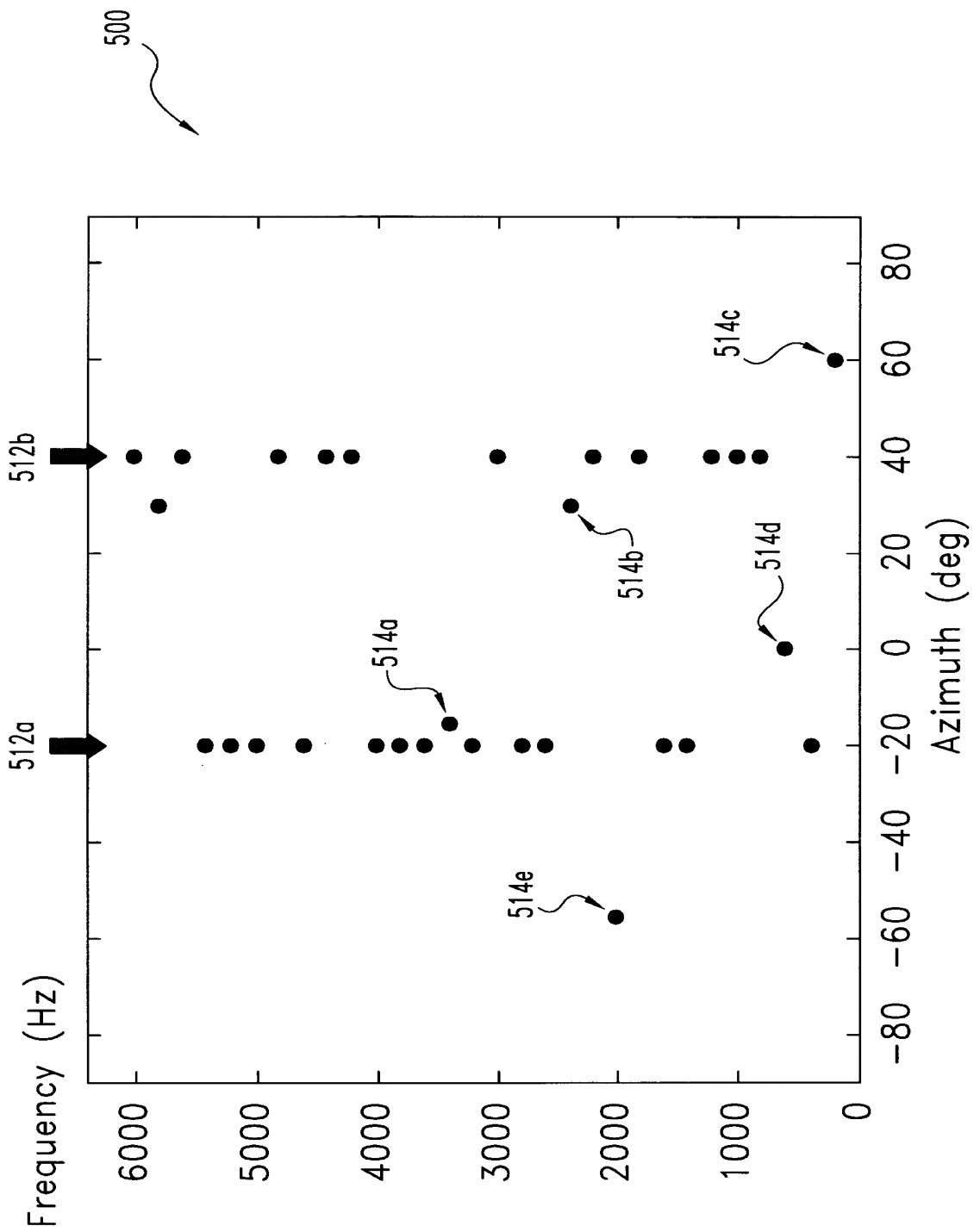


Fig. 17

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Test	Desired Source (°)	Intelligibility-Weighted Signal Cancellation (dB)				Intelligibility- Weighted Noise Cancellation (dB)	Net Intelligibility- Weighted Gain (dB)
		M1	M2	F1	F2		
		"armchair"	"playground"	"pancake"	"woodwork"		
#1		-75	0	20	75		
	-75	0.22	5.27	5.43	5.19	8.09	7.86
	0	7.94	-0.00	5.39	3.61	9.40	9.40
	20	8.24	3.63	-0.02	4.27	9.03	9.05
	75	8.37	4.69	5.17	0.05	10.16	10.11
#2		30	-45	60	-10		
	30	0.01	5.56	4.62	5.88	8.25	8.24
	-45	10.43	0.04	5.67	5.63	10.31	10.27
	60	11.24	5.56	0.06	5.70	10.65	10.59
	-10	9.32	4.29	3.51	-0.06	9.52	9.59
#3		10	-80	-50	45		
	10	0.01	4.88	5.25	3.05	7.79	7.78
	-80	10.00	0.15	5.53	3.29	10.66	10.52
	-50	10.10	2.99	0.03	3.39	9.54	9.51
	45	10.77	5.41	6.44	0.07	11.72	11.66
#4		-30	15	5	-60		
	-30	0.02	6.11	6.14	4.87	8.48	8.46
	15	9.55	-0.02	5.25	4.40	10.22	10.24
	5	9.24	2.99	-0.01	3.95	9.65	9.66
	-60	9.97	5.68	6.73	0.03	11.16	11.13
#5		-25	25	-70	80		
	-25	0.02	5.86	4.78	4.73	8.09	8.07
	25	9.07	-0.01	4.98	3.51	9.39	9.40
	-70	10.09	4.66	0.08	4.31	9.99	9.91
	80	9.40	4.90	4.61	0.02	10.27	10.25

TABLE I

Fig. 19

Test	Desired Source (°)	Intelligibility-Weighted Signal Cancellation (dB)				Intelligibility- Weighted Noise Cancellation (dB)	Net Intelligibility- Weighted Gain (dB)
		M1	M2	F1	F2		
		"armchair"	"playground"	"pancake"	"woodwork"		
#1		-75	0	20	75		
	-75	0.13	5.36	5.91	5.93	8.45	8.32
	0	8.10	0.00	5.20	4.09	9.71	9.71
	20	8.28	3.43	-0.01	4.76	9.16	9.18
	75	8.36	4.49	5.15	0.04	10.32	10.28
#2		30	-45	60	-10		
	30	0.01	5.50	4.61	5.79	8.22	8.20
	-45	10.48	0.04	5.67	5.54	10.31	10.28
	60	11.21	5.56	0.07	5.63	10.66	10.59
	-10	9.28	4.25	3.44	-0.07	9.53	9.60
#3		10	-80	-50	45		
	10	0.05	5.06	4.83	3.17	7.90	7.85
	-80	9.82	0.10	5.59	3.63	10.85	10.76
	-50	9.48	3.60	0.06	3.31	10.15	10.09
	45	10.51	5.47	6.38	0.05	11.95	11.90
#4		-30	15	5	-60		
	-30	0.02	6.11	6.13	5.11	8.56	8.53
	15	9.53	-0.00	5.31	4.33	10.25	10.25
	5	9.18	2.95	-0.00	4.01	9.55	9.56
	-60	9.70	5.33	6.07	0.01	10.92	10.91
#5		-25	25	-70	80		
	-25	0.01	5.82	4.96	5.37	8.24	8.24
	25	8.77	-0.00	5.19	4.29	9.43	9.43
	-70	9.77	4.85	0.05	4.74	10.18	10.13
	80	9.02	4.58	4.73	-0.00	10.38	10.39

TABLE II

Fig. 20

Test	Desired Source (°)	Intelligibility-Weighted Signal Cancellation (dB)				Intelligibility- Weighted Noise Cancellation (dB)	Net Intelligibility Weighted Gain (dB)
		F3	F4	M3	M4		
		"stairway"	"mushroom"	"birthday"	"sidewalk"		
#1		-75	0	20	75		
	-75	-0.09	8.47	7.85	6.17	9.51	9.42
	0	5.69	-0.01	6.45	5.38	8.30	8.31
	20	6.12	7.33	-0.03	5.09	9.65	9.69
	75	7.34	8.62	8.24	0.08	11.03	10.95
#2		30	-45	60	-10		
	30	0.01	8.04	6.31	6.63	9.24	9.22
	-45	7.48	0.13	6.05	6.06	9.02	8.89
	60	7.78	8.52	0.10	6.85	10.51	10.41
	-10	7.86	7.53	6.65	-0.03	10.02	10.05
#3		10	-80	-50	45		
	10	-0.11	5.96	6.32	6.99	7.48	7.59
	-80	6.06	0.11	5.86	6.74	9.11	9.00
	-50	6.71	4.33	0.06	7.18	7.95	7.88
	45	7.07	6.42	6.78	0.05	8.98	8.93
#4		-30	15	5	-60		
	-30	0.02	8.37	8.24	5.70	9.33	9.31
	15	6.56	0.02	6.51	5.81	8.87	8.85
	5	6.30	5.27	0.01	5.68	8.77	8.76
	-60	7.61	8.22	8.41	0.05	10.64	10.58
#5		-25	25	-70	80		
	-25	0.00	7.68	6.67	6.50	9.75	9.74
	25	6.14	-0.03	6.03	4.46	8.20	8.22
	-70	5.60	6.54	0.22	4.58	9.05	8.83
	80	6.85	7.42	6.12	0.08	9.91	9.84

TABLE III

Fig. 21

Test	Desired Source (°)	Intelligibility-Weighted Signal Cancellation (dB)				Intelligibility- Weighted Noise Cancellation (dB)	Net Intelligibility- Weighted Gain (dB)
		F3	F4	M3	M4		
		"stairway"	"mushroom"	"birthday"	"sidewalk"		
#1		-75	0	20	75		
	-75	0.11	6.41	6.78	7.15	8.17	8.06
	0	5.68	0.00	5.12	6.26	8.30	8.30
	20	6.10	5.82	-0.03	6.17	8.39	8.42
	75	7.40	6.04	6.60	0.09	8.44	8.35
#2		30	-45	60	-10		
	30	0.02	8.06	6.07	6.41	9.16	9.14
	-45	7.55	0.11	5.63	6.65	9.05	8.95
	60	7.47	8.48	0.08	6.64	10.55	10.47
	-10	7.57	7.60	6.31	-0.04	10.04	10.07
#3		10	-80	-50	45		
	10	-0.11	5.94	3.79	6.87	6.41	6.52
	-80	6.30	0.10	4.04	6.56	8.07	7.97
	-50	6.69	4.68	0.07	6.89	8.29	8.22
	45	7.16	6.07	4.94	0.03	8.02	7.99
#4		-30	15	5	-60		
	-30	0.02	8.45	7.08	6.18	9.10	9.08
	15	7.18	0.00	5.07	6.31	8.02	8.02
	5	6.27	5.21	0.03	5.47	8.66	8.64
	-60	7.89	8.34	7.19	0.05	10.35	10.30
#5		-25	25	-70	80		
	-25	0.01	7.79	6.63	6.57	9.67	9.66
	25	6.08	-0.03	5.90	4.82	8.25	8.28
	-70	5.58	6.66	0.15	4.43	9.18	9.03
	80	6.67	7.63	5.87	0.07	9.81	9.74

TABLE IV

Fig. 22